

**MP Biomedicals, LLC**29525 Fountain Parkway  
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## Certificate of Analysis

**Product Description:** Sodium Borate Decahydrate, ACS  
**Catalog Number:** 191436  
**Lot:** Q4570**Formula:**  $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$   
**CAS #:** 1303-96-4  
**Physical Description:** White Powder**Formula Weight:** 381.37  
**Storage:** Room Temperature

Test	Specification	Result
Assay	99.5 - 105.0%	99.88%
pH (0.01M aq soln)	9.15 - 9.20	9.18
Insoluble Matter	$\leq 0.005\%$	0.0021%
Chloride	$\leq 0.001\%$	$< 0.001\%$
Phosphate	$\leq 0.001\%$	$< 0.001\%$
Sulfate	$\leq 0.005\%$	$< 0.005\%$
Calcium	$\leq 0.005\%$	0.00025%
Heavy Metals (as Pb)	$\leq 0.001\%$	$< 0.001\%$
Iron	$\leq 5$ ppm	$< 5$ ppm

Carbonate & Bicarbonate: Passes  
Organic volatile impurities: Passes  
Residual solvents: Solvent (other than water) was not used during production or purification process of the product.  
Recommended Retest Date: 12/01/2025

A handwritten signature in black ink, appearing to read 'J Huang'.

07/19/2016 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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